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1 [Comparing architectural styles: broker specializes mediator](#)

N. Lévy, F. Losavio, A. Matteo

 November 1998 **Proceedings of the third international workshop on Software architecture**

 Full text available: [pdf\(482.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


2 [Toward Flexible Messaging for SOAP-Based Services](#)

Geoffrey Fox, Shrideep Pallickara, Savas Parastatidis

 November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

 Full text available: [pdf\(247.58 KB\)](#) Additional Information: [full citation](#), [abstract](#)


NaradaBrokering provides a messaging abstraction that allows it to provide message-related capabilities in a transparent fashion. These capabilities include message-based security, time and causal ordering, compression, virtualization of transport protocol and addressing, and fault tolerance related functionalities. NaradaBrokering 2 combined with further extensions to its existing capabilities 2 can also take advantage of the maturing of Web Service specifications to build very powerful general ...

Keywords: Performance, Design, Reliability, Distributed middleware, Grid computing, Web Services, service oriented architectures

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...


4 [System support for object groups](#)



Rachid Guerraoui, Pascal Felber, Benoît Garbinato, Karim Mazouni

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN**

conference on Object-oriented programming, systems, languages, and applications, Volume 33 Issue 10

Full text available:  [pdf\(2.12 MB\)](#)

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This paper draws several observations from our experiences in building support for object groups. These observations actually go beyond our experiences and may apply to many other developments of object based distributed systems. Our first experience aimed at building support for Smalltalk object replication using the Isis process group toolkit. It was quite easy to achieve group transparency but we were confronted with a strong mismatch between the rigidity of the process group model and the fle ...

5 The impact of object technology on commercial transaction processing

Edward E. Cobb

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3

Full text available:  [pdf\(649.17 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Businesses today are searching for information solutions that enable them to compete in the global marketplace. To minimize risk, these solutions must build on existing investments, permit the best technology to be applied to the problem, and be manageable. Object technology, with its promise of improved productivity and quality in application development, delivers these characteristics but, to date, its deployment in commercial business applications has been limited. One possible reason is the ...

Keywords: Objects, Workflow, transaction processing


6 Developing and integrating enterprise components and services: Web services: beyond component-based computing

Michael Stal

October 2002 **Communications of the ACM**, Volume 45 Issue 10

Full text available:  [pdf\(138.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

 [html\(41.29 KB\)](#)

Seeking a better solution to the application integration problem.

7 A distributed object computing architecture for leveraging software reengineering systems

Chia-Chu Chiang

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available:  [pdf\(288.71 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: CORBA, design patterns, legacy integration, software reengineering

8 Stateful distributed interposition

John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available:  [pdf\(833.84 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries.

For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex service ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

9 Frameworks for component-based client/server computing

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1


Full text available:  pdf(243.81 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



10 Mobile objects in distributed Oz

Peter Van Roy, Seif Haridi, Per Brand, Gert Smolka, Michael Mehl, Ralf Scheidhauer

September 1997 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 5

Full text available:  pdf(484.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Some of the most difficult questions to answer when designing a distributed application are related to mobility: what information to transfer between sites and when and how to transfer it. Network-transparent distribution, the property that a program's behavior is independent of how it is partitioned among sites, does not directly address these questions. Therefore we propose to extend all language entities with a network behavior that enables efficient distributed programming ...

Keywords: latency tolerance, mobile objects, network transparency

11 Π^2 – a generic proxy platform for wireless access and mobility in CORBA

Rainer Ruggaber, Jochen Seitz, Michael Knapp

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**

Full text available:  pdf(815.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Distributed applications in a wireless environment often suffer from sudden connection losses. Furthermore, scarce bandwidth and high error rates may affect data transmission so that traditional Internet protocols like TCP show unwanted behaviour. However, one of today's most popular middleware architectures, namely the Common Object Request Broker Architecture CORBA, is built on top of TCP. Hence, its extension into the wireless and mobile environment has to be carefully designed. This paper ...

12 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Full text available:  pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The